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NEWS 24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 25	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 26	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 27	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 28	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 29	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 30	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 31	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 32	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in

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 NEWS 33  JUN 30  STN AnaVist enhanced with database content from EPFULL

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=> s implant? and (drug delivery)
   1 FILES SEARCHED...
L1        49048 IMPLANT? AND (DRUG DELIVERY)

=> s l1 and (molecular weight cutoff)
L2          508 L1 AND (MOLECULAR WEIGHT CUTOFF)

=> s l2 and tether
L3           42 L2 AND TETHER

=> s l3 and (radioopaque)
L4            0 L3 AND (RADIOOPAQUE)
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=> s l3 and (radio opaque)
L5            5 L3 AND (RADIO OPAQUE)

=> d l5 1-5 ibib abs

L5   ANSWER 1 OF 5  USPATFULL on STN
ACCESSION NUMBER:        2006:174525  USPATFULL
TITLE:                   Polynucleotide encoding a novel human serpin secreted
                         from lymphoid cells, LSI-01
INVENTOR(S):             Chen, Jian, Princeton, NJ, UNITED STATES
                         Feder, John N., Belle Mead, NJ, UNITED STATES
                         Nelson, Thomas, Lawrenceville, NJ, UNITED STATES
                         Seiler, Steven, Pennington, NJ, UNITED STATES
                         Bassolino, Donna A, Hamilton, NJ, UNITED STATES
                         Cheney, Daniel L., Flemington, NJ, UNITED STATES
                         Duclos, Franck, Washington Crossing, PA, UNITED STATES

                              NUMBER         KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 20060147973     A1   20060706
                         US 7256267         B2   20070814
APPLICATION INFO.:       US 2006-329900     A1   20060111  (11)
RELATED APPLN. INFO.:    Division of Ser. No. US 2001-993180, filed on 14 Nov
                         2001, PENDING

                                NUMBER         DATE
                         ------------------ --------
PRIORITY INFORMATION:    US 2000-248434P    20001114 (60)
                         US 2000-257610P    20001221 (60)
                         US 2001-282745P    20010410 (60)
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
LEGAL REPRESENTATIVE:    LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT
                         DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US
NUMBER OF CLAIMS:        11
EXEMPLARY CLAIM:         1-52
NUMBER OF DRAWINGS:      8 Drawing Page(s)
LINE COUNT:              18514
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention provides novel polynucleotides encoding LSI-01
         polypeptides, fragments and homologues thereof. Also provided are
         vectors, host cells, antibodies, and recombinant and synthetic methods
         for producing said polypeptides. The invention further relates to
         diagnostic and therapeutic methods for applying these novel LSI-01
         polypeptides to the diagnosis, treatment, and/or prevention of various
         diseases and/or disorders related to these polypeptides. The invention
         further relates to screening methods for identifying agonists and
         antagonists of the polynucleotides and polypeptides of the present
         invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 2 OF 5  USPATFULL on STN
ACCESSION NUMBER:        2006:15798  USPATFULL
TITLE:                   Human phosphatase RET31, and variants thereof
INVENTOR(S):             Jackson, Donald G., Lawrenceville, NJ, UNITED STATES
                         Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
                         Feder, John N., Belle Mead, NJ, UNITED STATES
                         Mintier, Gabe, Hightstown, NJ, UNITED STATES
                         Lee, Liana, North Brunswick, NJ, UNITED STATES
                         Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
                         Siemers, Nathan, Pennington, NJ, UNITED STATES
                         Bol, David, Langhorne, PA, UNITED STATES
                         Suchard, Suzanne, Wilmington, DE, UNITED STATES
                         Schieven, Gary, Lawrenceville, NJ, UNITED STATES
```

Finger, Joshua, San Marcos, CA, UNITED STATES
Todderrud, C. Gordon, Newtown, PA, UNITED STATES
Bassolino, Donna, Hamilton, NJ, UNITED STATES
Krystek, Stanley, Ringoes, NJ, UNITED STATES
Banas, Dana, Hamilton, NJ, UNITED STATES
McAtee, Patrick, Pennington, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060014180	A1	20060119
	US 7358074	B2	20080415
APPLICATION INFO.:	US 2005-143984	A1	20050602 (11)

RELATED APPLN. INFO.: Division of Ser. No. US 2001-29345, filed on 20 Dec 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-256868P	20001220 (60)
	US 2001-280186P	20010330 (60)
	US 2001-287735P	20010501 (60)
	US 2001-295848P	20010605 (60)
	US 2001-300465P	20010625 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1-25
NUMBER OF DRAWINGS: 67 Drawing Page(s)
LINE COUNT: 29165
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding human phosphatase polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel human phosphatase polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly cardiovascular diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 5 USPATFULL on STN
ACCESSION NUMBER: 2005:152469 USPATFULL
TITLE: Method and device for minimally invasive implantation of biomaterial
INVENTOR(S): Freeman, Lynetta Jean, West Chester, OH, UNITED STATES
DiFrancesco, Mark W., Loveland, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20050131386	A1	20050616
APPLICATION INFO.:	US 2003-736421	A1	20031215 (10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FROST BROWN TODD, LLC, 2200 PNC CENTER, 201 E. FIFTH STREET, CINCINNATI, OH, 45202, US
NUMBER OF CLAIMS: 60
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Page(s)
LINE COUNT: 2319
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A minimally invasive method of placing a delivery device substantially adjacent to vascular tissue and a device for use with such a method are disclosed. The delivery device may be a flexible biological construct with a flexible tethering means. The delivery device may be percutaneously inserted near vascular tissue such as, for example, peritoneal tissue. When the delivery device has been inserted, the tether may be used to pull the delivery device toward the vascular tissue and secure the device thereto. Contact between the front surface of the delivery device and the vascular tissue may be maintained by making and keeping the tether substantially taut. The delivery device may serve accomplish sustained delivery of active agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2005:151374 USPATFULL

TITLE: POLYNUCLEOTIDES ENCODING NOVEL HUMAN PHOSPHATASES

INVENTOR(S): Jackson, Donald G., Lawrenceville, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Mintier, Gabe, Hightstown, NJ, UNITED STATES
Lee, Liana, North Brunswick, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Siemers, Nathan, Pennington, NJ, UNITED STATES
Bol, David, Langhorne, PA, UNITED STATES
Suchard, Suzanne, Wilmington, DE, UNITED STATES
Schieven, Gary, Lawrenceville, NJ, UNITED STATES
Finger, Joshua, San Marcos, CA, UNITED STATES
Todderrud, C. Gordon, Newtown, PA, UNITED STATES
Bassolino, Donna, Hamilton, NJ, UNITED STATES
Krystek, Stanley, Ringoes, NJ, UNITED STATES
Banas, Dana, Hamilton, NJ, UNITED STATES
McAtee, Patrick, Pennigton, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 20050130286	A1	20050616	
	US 7153678	B2	20061226	
APPLICATION INFO.:	US 2001-29345	A1	20011220	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-256868P	20001220 (60)
	US 2001-280186P	20010330 (60)
	US 2001-287735P	20010501 (60)
	US 2001-295848P	20010605 (60)
	US 2001-300465P	20010625 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US
NUMBER OF CLAIMS: 45
EXEMPLARY CLAIM: 1-25
NUMBER OF DRAWINGS: 67 Drawing Page(s)
LINE COUNT: 23559
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding human phosphatase polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel human phosphatase polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly cardiovascular diseases and/or disorders. The

invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER:	2003:78525 USPATFULL
TITLE:	Polynucleotide encoding a novel human serpin secreted from lymphoid cells, LSI-01
INVENTOR(S):	Chen, Jian, Princeton, NJ, UNITED STATES Feder, John N., Belle Mead, NJ, UNITED STATES Nelson, Thomas, Lawrenceville, NJ, UNITED STATES Seiler, Steven, Pennington, NJ, UNITED STATES Bassolino, Donna A., Hamilton, NJ, UNITED STATES Cheney, Daniel L., Flemington, NJ, UNITED STATES Duclos, Franck, Washington Crossing, PA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 20030054445	A1	20030320	
	US 7247717	B2	20070724	
APPLICATION INFO.:	US 2001-993180	A1	20011114	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-248434P	20001114 (60)
	US 2000-257610P	20001221 (60)
	US 2001-282745P	20010410 (60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000
NUMBER OF CLAIMS:	52
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	8 Drawing Page(s)
LINE COUNT:	14427

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding LSI-01 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel LSI-01 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'CAPLUS, USPATFULL, JAPIO, MEDLINE, BIOSIS, EMBASE, SCISEARCH, EPFULL' ENTERED AT 18:28:21 ON 22 JUL 2008

L1	49048	S	IMPLANT? AND (DRUG DELIVERY)
L2	508	S	L1 AND (MOLECULAR WEIGHT CUTOFF)
L3	42	S	L2 AND TETHER
L4	0	S	L3 AND (RADIOOPAQUE)
L5	5	S	L3 AND (RADIO OPAQUE)

=> s l3 and radiopaque

L6 12 L3 AND RADIOPAQUE

=> d l6 1-12 ibib abs

L6 ANSWER 1 OF 12 USPATFULL on STN
ACCESSION NUMBER: 2006:93609 USPATFULL
TITLE: Sensors for detecting substances indicative of stroke, ischemia, or myocardial infarction
INVENTOR(S): Silver, James H., Palo Alto, CA, UNITED STATES
Mostowfi, Darius F., San Carlos, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060079740	A1	20060413
APPLICATION INFO.:	US 2005-280680	A1	20051116 (11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2004-758495, filed on 15 Jan 2004, PENDING Continuation-in-part of Ser. No. US 2002-217202, filed on 9 Aug 2002, GRANTED, Pat. No. US 7006858 Continuation-in-part of Ser. No. US 2001-41036, filed on 8 Nov 2001, PENDING Continuation-in-part of Ser. No. US 2000-571702, filed on 15 May 2000, GRANTED, Pat. No. US 6442413
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614, US
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 41 Drawing Page(s)
LINE COUNT: 4388
AB A sensor is disclosed, for implantation within a blood vessel to monitor a substance in or property of blood. In one embodiment, the sensor detects nitric oxide or a nitric oxide metabolite. In another embodiment, other substances such as glutamate, aspartate, arginine, citrulline, acetylcholine, calcium, potassium, or dopamine are monitored. The sensor may be attached to a support structure such as a stent, guidewire, or catheter. In a further embodiment, a catheter is disclosed that extracts patient fluid to a sensor outside the body for monitoring a substance or property of the patient fluid. Methods are also disclosed.

L6 ANSWER 2 OF 12 USPATFULL on STN
ACCESSION NUMBER: 2004:239278 USPATFULL
TITLE: Implantable biocompatible immunoisolatory vehicle for delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, UNITED STATES
Emerich, Dwaine F., Providence, RI, UNITED STATES
Hoffman, Diane, Cambridge, MA, UNITED STATES
Sanberg, Paul R., Spring Hill, FL, UNITED STATES
Christenson, Lisa, New Haven, CT, UNITED STATES
Hegre, Orion D., Green Valley, AZ, UNITED STATES
Scharp, David W., St. Louis, MO, UNITED STATES
Lacy, Paul E., Webster Grove, MO, UNITED STATES
Aebischer, Patrick, Lutry, SWITZERLAND
Vasconcellos, Alfred V., Cranston, RI, UNITED STATES
Lysaght, Michael J., E. Greenwich, RI, UNITED STATES
Gentile, Frank T., Warwich, RI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20040185083	A1	20040923
	US 6960351	B2	20051101
APPLICATION INFO.:	US 2003-624081	A1	20030721 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-7344, filed on 25 Oct

2001, ABANDONED Continuation of Ser. No. US 2000-563248, filed on 2 May 2000, GRANTED, Pat. No. US 6322804 Division of Ser. No. US 1998-148671, filed on 4 Sep 1998, GRANTED, Pat. No. US 6083523 Division of Ser. No. US 1995-449837, filed on 24 May 1995, GRANTED, Pat. No. US 5874099 Division of Ser. No. US 1994-179151, filed on 10 Jan 1994, GRANTED, Pat. No. US 5800828 Continuation-in-part of Ser. No. WO 1992-US3327, filed on 22 Apr 1992, PENDING Continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, ABANDONED

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C., ONE FINANCIAL CENTER, BOSTON, MA, 02111
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 3727
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An immunoisolatory vehicle for the implantation into an individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual. The vehicle is particularly well-suited to delivery of insulin from immunoisolated islets of Langerhans, and can also be used advantageously for delivery of high molecular weight products, such as products larger than IgG. A method of making a biocompatible, immunoisolatory implantable vehicle, consisting in a first embodiment of a coextrusion process, and in a second embodiment of a stepwise process. A method for isolating cells within a biocompatible, immunoisolatory implantable vehicle, which protects the isolated cells from attack by the immune system of an individual in whom the vehicle is implanted. A method of providing a needed biological product or metabolic function to an individual, comprising implanting into the individual an immunoisolatory vehicle containing isolated cells which produce the product or provide the metabolic function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 12 USPATFULL on STN
ACCESSION NUMBER: 2002:272488 USPATFULL
TITLE: Implantable biocompatible immunoisolatory vehicle for delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, UNITED STATES
Emerich, Dwaine F., Providence, RI, UNITED STATES
Hoffman, Diane, Cambridge, MA, UNITED STATES
Sanberg, Paul R., Spring Hill, FL, UNITED STATES
Christenson, Lisa, New Haven, CT, UNITED STATES
Hegre, Orion D., Green Valley, AZ, UNITED STATES
Scharp, David W., St. Louis, MO, UNITED STATES
Lacy, Paul E., Webster Grove, MO, UNITED STATES
Aebischer, Patrick, Lutry, SWITZERLAND
Vasconcellos, Alfred V., Cranston, RI, UNITED STATES
Lysaght, Michael J., E. Greenwich, RI, UNITED STATES
Gentile, Frank T., Warwich, RI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20020150603	A1	20021017
APPLICATION INFO.:	US 2001-7344	A1	20011025 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-563248, filed on 2 May 2000, GRANTED, Pat. No. US 6322804 Division of Ser. No.

US 1998-148671, filed on 4 Sep 1998, GRANTED, Pat. No. US 6083523 Division of Ser. No. US 1995-449837, filed on 24 May 1995, GRANTED, Pat. No. US 5874099 Division of Ser. No. US 1994-179151, filed on 10 Jan 1994, GRANTED, Pat. No. US 5800828 Continuation-in-part of Ser. No. WO 1992-US3327, filed on 22 Apr 1992, UNKNOWN Continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, ABANDONED

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MINTZ LEVIN, One Financial Center, Boston, MA, 02111
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 3733
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An immunoisolatory vehicle for the implantation into an individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual. The vehicle is particularly well-suited to delivery of insulin from immunoisolated islets of Langerhans, and can also be used advantageously for delivery of high molecular weight products, such as products larger than IgG. A method of making a biocompatible, immunoisolatory implantable vehicle, consisting in a first embodiment of a coextrusion process, and in a second embodiment of a stepwise process. A method for isolating cells within a biocompatible, immunoisolatory implantable vehicle, which protects the isolated cells from attack by the immune system of an individual in whom the vehicle is implanted. A method of providing a needed biological product or metabolic function to an individual, comprising implanting into the individual an immunoisolatory vehicle containing isolated cells which produce the product or provide the metabolic function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 12 USPATFULL on STN
ACCESSION NUMBER: 2001:214673 USPATFULL
TITLE: Implantable biocompatible immunoisolatory vehicle for the delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Neurotech S.A., Evry, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6322804	B1	20011127
APPLICATION INFO.:	US 2000-563248		20000502 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1998-148671, filed on 4 Sep 1998, now patented, Pat. No. US 6083523 Division of Ser. No. US 1995-449837, filed on 24 May 1995, now

patented, Pat. No. US 5874099 Division of Ser. No. US 179151, now patented, Pat. No. US 5800828 Continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Mintz, Levin, Cohn, Ferris, Glovsky and Pope, P.C., Elrifi, Ivor R., Karnakis, Christina V.
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3794
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An immunoisolatory vehicle for the implantation into an individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 12 USPATFULL on STN
ACCESSION NUMBER: 2000:83864 USPATFULL
TITLE: Implantable biocompatable immunoisolatory vehicle for delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, Providence, RI, United States (U.S. corporation)
Brown University, Providence, RI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6083523		20000704
APPLICATION INFO.:	US 1998-148671		19980904 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-449837, filed on 24 May 1995, now patented, Pat. No. US 5874099 And a continuation-in-part of Ser. No. WO 1992-US3327, filed on 22 Apr 1992 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Azpuru, Carlos A.
LEGAL REPRESENTATIVE: Mintz, Levin, Cohn, Ferris Glovsky and Popeo, P.C., Elrifi, Ivor R., Prince, John
NUMBER OF CLAIMS: 40
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3880
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An immunoisolatory vehicle for the implantation into an

individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 12 USPATFULL on STN

ACCESSION NUMBER:	1999:24325 USPATFULL
TITLE:	Methods for making immunoisolatary implantable vehicles with a biocompatible jacket and a biocompatible matrix core
INVENTOR(S):	Dionne, Keith E., Rehoboth, MA, United States Emerich, Dwaine F., Providence, RI, United States Hoffman, Diane, Cambridge, MA, United States Sanberg, Paul R., Spring Hill, FL, United States Christenson, Lisa, New Haven, CT, United States Hegre, Orion D., Green Valley, AZ, United States Scharp, David W., St. Louis, MO, United States Lacy, Paul E., Webster Grove, MO, United States Aebischer, Patrick, Lutry, Switzerland Vasoohcellos, Alfred V., Cranston, RI, United States Lysaght, Michael J., E. Greenwich, RI, United States Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S):	Brown University Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5874099		19990223
APPLICATION INFO.:	US 1995-449837		19950524 (8)

RELATED APPLN. INFO.:	Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Bawa, Raj
LEGAL REPRESENTATIVE:	Elrifi, Ivor R.Mitz, Levin
NUMBER OF CLAIMS:	28
EXEMPLARY CLAIM:	3
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT:	3879

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of forming an implantable and retrievable immunoisolatory vehicles is disclosed, the method comprising the steps of first forming a core comprising a volume of at least 1 μl and at least 10.sup.4 cells capable of providing a biologically active product or metabolic or immunologic function, said cells being dispersed in a biocompatible hydrogel or extracellular matrix, and then forming around the core a surrounding external biocompatible thermoplastic or hydrogel jacket free of said cells projecting externally thereof, said jacket having molecular weight cutoff permitting passage of molecules to and from the core through said jacket to provide said biologically active product or function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 12 USPATFULL on STN

ACCESSION NUMBER:	1999:21753 USPATFULL
TITLE:	Methods for treatment or prevention of neurodegenerative conditions using immunoisolatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5871767		19990216
APPLICATION INFO.:	US 1995-449062		19950524 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Ekrufu, Ivor R.Mintz, Levin
NUMBER OF CLAIMS: 45
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3909
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for treatment of a neurodegenerative condition in a patient comprising implanting in the patient at least one immunoisolatory vehicle comprising a corc comprising a volume of at least 1 μl and at least 10.sup.4 living cells which secrete at least one biologically active product, said cells being dispersed in a biocompatible matrix comprising a hydrogel or extracellular matrix components, and an external jacket surrounding the core, the jacket comprising a biocompatible hydrogel or thermoplastic, the jacket being free of cells projecting externally thereof, said jacket having a molecular weight cutoff permitting the passage of the biologically active product from the core through the jacket.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 12 USPATFULL on STN
ACCESSION NUMBER: 1999:18748 USPATFULL
TITLE: Methods for treating diabetes by delivering insulin from biocompatible cell-containing devices
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5869077		19990209
APPLICATION INFO.:	US 1995-449562		19950524 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Elrifi, Ivor R.Mintz, Levin
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3813
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for treating diabetes in a patient comprising subcutaneously implanting in the patient at least one immunoisolatory vehicle comprising a core comprising a volume of at least 1 μl and at least about 10.sup.4 living cells which secrete insulin, said cells being dispersed in a biocompatible matrix comprising a hydrogel or extracellular matrix components, and a surrounding external jacket of a biocompatible thermoplastic or hydrogel free of said cells projecting externally thereof, said jacket being permselective and immunoisolatory, said jacket having a molecular weight cutoff permitting passage of molecules between the patient and core through said jacket wherein the insulin is released from the immunoisolatory vehicle into the patient's body to treat diabetes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 12 USPATFULL on STN
ACCESSION NUMBER: 1998:138453 USPATFULL
TITLE: Methods for making immunoisolatory implantable vehicles with a biocompatiable jacket and a biocompatible matrix core
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Sharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5834001		19981110
APPLICATION INFO.:	US 1995-449214		19950524 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Ivor Elrifi Mintz, Levin
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 5
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)

LINE COUNT: 3844
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method of forming an implantable and retrievable immunoisolatory vehicle is disclosed, the method comprising the steps of first forming a jacket of biocompatible thermoplastic or hydrogel, and then loading the jacket with a core comprising a volume of at least 1 μl and at least 10.sup.4 cells capable of secreting a biocompatible matrix comprising a hydrogel or extracellular matrix, said jacket having a molecular weight cutoff permitting passage of molecules thereacross to provide said biologically active product or said function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 10 OF 12 USPATFULL on STN
ACCESSION NUMBER: 1998:104405 USPATFULL
TITLE: Methods for coextruding immunoisolatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5800829		19980901
APPLICATION INFO.:	US 1995-449274		19950524 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-693403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Elrifi, Ivor R.Mintz, Levin
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 6
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3898
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method of making an immunoisolatory vehicle comprised of a core comprising living cells dispersed in a biocompatible matrix is disclosed, the cells being capable of secreting a biologically active product or of providing a metabolic or immunologic function to an individual, and an external jacket surrounding said core which is a biocompatible, permselective thermoplastic or hydrogel, said jacket being free of said cells, comprising coextruding a suspension comprising said cells dispersed in a precursor matrix material comprising extracellular matrix components or a biocompatible hydrogel precursor, and a solution of a biocompatible jacket precursor from a nested dual-bore extrusion nozzle, wherein the suspension of (a) is coextruded from the inner bore and the solution of (b) is coextruded from the outer bore of the nozzle, to form said jacket as the solution of (b) and the suspension of (a) arc coextruded; and exposing the vehicle to a treatment that forms a core comprising a volume of at least 1 μl and

at least 10.sup.4 cells and comprising a biocompatible matrix from the precursor matrix of solution (a).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 11 OF 12 USPATFULL on STN
ACCESSION NUMBER: 1998:104404 USPATFULL
TITLE: Implantable biocompatible immunoisolatory vehicle for delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5800828		19980901
APPLICATION INFO.:	US 1994-179151		19940110 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Elrifi, Ivor R.Mintz, Levin
NUMBER OF CLAIMS: 43
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3914
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Immunoisolatory vehicles having a core and a surrounding jacket are disclosed, the core having a volume in excess of 1 μl and at least about 10.sup.4 living cells capable of secreting a biologically active product or of providing a biological function to a patient, the cells dispersed in a biocompatible matrix formed of a hydrogel or an extracellular matrix component, and the external jacket being permselective, biocompatible and having a molecular weight cutoff permitting passage of molecules between the patient and the core through said jacket to provide said biological product or function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 12 OF 12 USPATFULL on STN
ACCESSION NUMBER: 1998:101409 USPATFULL
TITLE: Implantable biocompatible immunoisolatory vehicle for delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland

Vasooncellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., Greenwich, RI, United States
Gentile, Frank T., Warwich, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5798113		19980825
APPLICATION INFO.:	US 1995-449524		19950524 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Elrifi, Ivor R., Levin, Mintz
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3901
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of providing a biologically active molecule or metabolic or immunologic function to a patient, comprising implanting into the body of the patient at least one immunoisolatory vehicle comprising a core comprising a volume in excess of 1 μl and at least about 10.sup.4 living cells dispersed in a biocompatible matrix formed of a hydrogel or extracellular matrix components, said cells being capable of secreting a biologically active product or of providing a metabolic or immunologic function to the patient; and an external jacket surrounding said core, said jacket being formed from a thermoplastic or hydrogel, said jacket being free of said cells projecting externally therefrom, said jacket being biocompatible and having a molecular weight cutoff permitting passage of molecules between the patient and the core through said jacket to provide said biologically active product of function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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